



FORM PTO-1449

FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
MM	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
↓	A03	EP 0 385 610 B1	03/16/1994	Europe			Yes No
	AP3	WO 94/06472 A1	03/31/1994	WIPO			Yes X No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	81	Baba, T.W., et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825, American Association for the Advancement of Science (1995)
	AS	81	Bachmann, M.F., et al., "Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8 <sup>+</sup> cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 26:2595-2600, VCH Verlagsgesellschaft mbH (1996)
↓	AT	81	Boorsma, M., et al., "A temperature-regulated replicon-based DNA expression system," <i>Nat. Biotechnol.</i> 18:429-432, Nature America, Inc. (April 2000)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AL4	EP 0 465 081 B1	04/20/1994	Europe			Yes No
	AM4	EP 0 283 505 B1	07/06/1994	Europe			Yes No
	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AO4	EP 0 425 082 A1	04/26/1995	Europe			Yes No
	AP4	WO 96/05293 A1	02/22/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	82	Borisova, G., et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," <i>J. Virol.</i> 67:3696-3701, American Society for Microbiology (1993)
	AS	82	Cesareni, G., "Peptide display on filamentous phage capsids: A new powerful tool to study protein-ligand interaction," <i>FEBS Lett.</i> 307:66-70, Elsevier Science Publishers B.V. (1992)
	AT	82	Connor, R.I., et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," <i>J. Virol.</i> 72:1552-1576, American Society for Microbiology (1998)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AL5	WO 99/07839 A2	02/18/1999	WIPO			Yes No
	AM5	WO 99/40934 A1	08/19/1999	WIPO			Yes No
	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	83	Cramer, R. and Suter, M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," Gene 137:69-75, Elsevier Science Publishers B.V. (1993)
	AS	83	Daniel, M.D., et al., "Protective Effects of a Live Attenuated SIV Vaccine with a Deletion in the nef Gene," Science 258:1938-1941, American Association for the Advancement of Science (1992)
	AT	83	de la Cruz, V.F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," J. Biol. Chem. 263:4318-4322, The American Society for Biochemistry and Molecular Biology, Inc. (1988)

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MM	AR	84	Donnelly, J.J., et al., "DNA Vaccines," Annu. Rev. Immunol. 15:617-648, Annual Reviews, Inc. (1997)
	AS	84	Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," J. Biol. Chem. 264:7882-7888, The American Society for Biochemistry and Molecular Biology, Inc. (1989)
	AT	84	Esposito, G., et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and two-dimensional NMR: Analysis of the structural effects on the activity of synthetic immunogens," Eur. J. Biochem. 217:171-187, Blackwell Science Ltd. on behalf of the Federation of European Biochemical Societies (1993)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

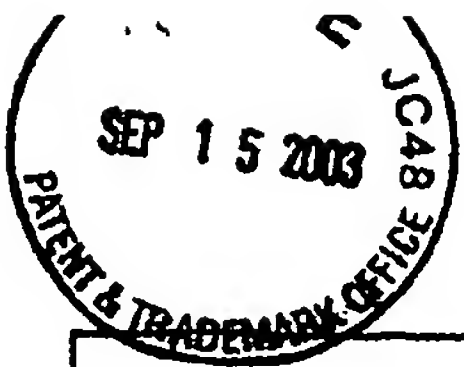
MM	AR	85	Förster, E., et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A <sub>2</sub> has the same potency to release histamine from basophils in patients with Hymenoptera allergy," <i>J. Allergy Clin. Immunol.</i> 95:1229-1235, Mosby-Year Book, Inc. (1995)
	AS	85	Frolov, I., et al., "Alphavirus-based expression vectors: Strategies and applications," <i>Proc. Natl. Acad. Sci. USA</i> 93:11371-11377, National Academy Press (1996)
	AT	85	Gilbert, S.C., et al., "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America Publishing (1997)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	86	Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998)
	AS	86	Hahn, C.S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," Proc. Natl. Acad. Sci. USA 89:2679-2683, National Academy Press (1992)
	AT	86	Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," J. Immunol. 153:4925-4933, The American Association of Immunologists (1994)

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MM	AR	87	Hilleman, M.R., "Six decades of vaccine development - a personal history," Nat. Med. Vaccine Suppl. 4:507-514 (May 1998)
	AS	87	Hui, E. K-W. et al., "Hepatitis B viral core proteins with an N-terminal extension can assemble into core-like particles but cannot be enveloped," J. Gen. Virol. 80:2647-2659, Society for General Microbiology (1999)
	AT	87	Iannolo, G., et al., "Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," Biol. Chem. 378:517-521, Walter de Gruyter & Co. (1997)

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MM	AR	88	Iannolo, G., et al., "Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein," <i>J. Mol. Biol.</i> 248:835-844, Academic Press, Ltd. (1995)
	AS	88	Ikram, H., and Prince, A.M., "A method for coupling the Hepatitis B surface antigen to aldehyde-fixed erythrocytes for use in passive hemagglutination," <i>J. Virol. Methods</i> 2:269-275, Elsevier/North-Holland Biomedical Press (1981)
	AT	88	Kovacsovics-Bankowski, M., et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophages," <i>Proc. Natl. Acad. Sci. USA</i> 90:4942-4946, National Academy Press (1993)

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MM	AR	89	Lo, K. K-W., et al., "Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry," <i>FEBS Lett.</i> 451:342-346, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)
	AS	89	Minenkova, O.O., et al., "Design of specific immunogens using filamentous phage as the carrier," <i>Gene</i> 128:85-88, Elsevier Science Publishers B.V. (1993)
	AT	89	Neurath, A.R., et al., "Hepatitis B Virus surface antigen (HBsAg) as carrier for synthetic peptides having an attached hydrophobic tail," <i>Mol. Immunol.</i> 26:53-62, Pergamon Press (1989)

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MM	AR	90	Perham, R.N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," <i>FEMS Microbiol. Rev.</i> 17:25-31, Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies (1995)
	AS	90	Petrenko, V.A., et al., "A library of organic landscapes on filamentous phage," <i>Protein Engin.</i> 9:797-801, Oxford University Press (1996)
	AT	90	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," <i>FEBS Lett.</i> 442:1-6, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)

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MM	AR	91	Quash, G., et al., "The preparation of latex particles with covalently bound polyamines IgG and measles agglutinins and their use in visual agglutination tests," <i>J. Immunol. Methods</i> 22:165-174, Elsevier/North-Holland Biomedical Press (1978)
	AS	91	Raychaudhuri, S., and Rock, K.L., "Fully mobilizing host defense: Building better vaccines," <i>Nat. Biotechnol.</i> 16:1025-1031, Nature America, Inc. (1998)
	AT	91	Redfield, R.R., et al., "Disseminated vaccinia in a military recruit with Human Immunodeficiency Virus (HIV) disease," <i>N. Eng. J. Med.</i> 316:673-676, Massachusetts Medical Society (1987)

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MM  ↓	AR	92	Rudolf, M.P., et al., Molecular Basis for Nonanaphylactogenicity of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, The American Association of Immunologists (2000)
	AS	92	Sedlik, C., et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:7503-7508, National Academy Press (1997)
	AT	92	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8 <sup>+</sup> Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443, American Association for the Advancement of Science (1991)

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MM	AR	93	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using $\beta$ -Galactosidase as Label," J. Pharm. Dyn. 4:812-819, Pharmaceutical Society of Japan (1981)
	AS	93	Townsend, A., and Bodmer, H., "Antigen recognition by class I-restricted T lymphocytes," Ann. Rev. Immunol. 7:601-624, Annual Reviews, Inc. (1989)
	AT	93	VanCott, T.C., et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," J. Virol. 71:4319-4330, American Society for Microbiology (1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	94	Watkins, S.J., et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," Gene Ther. 4:1004-1012, Stockton Press (1997)
	AS	94	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," Gene 128:79-83, Elsevier Science Publishers B.V. (1993)
	AT	94	Dialog File 351, Accession No. 7431992, Derwent WPI English language abstract for WO 94/06472 (Document AP3)

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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## FOREIGN PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	95	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August 2000) (not for publication)
↓	AS	95	International Search Report for International Application No. PCT/IB99/01925, European Patent Office, Netherlands (June 2000) (not for publication)
	AT		

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